X

PROGRESS REPORT

OF

FOREST ADMINISTRATION

IN

COORG

FOR

1876-77,

By CAPTAIN G. J. VANSOMEREN, 25th M.N.I.,
CONSERVATOR OF FORESTS:

WITH A REVIEW BY THE CHIEF COMMISSIONER

AND

ORDERS BY THE GOVERNMENT OF INDIA.

1877.

CALCUTTA:

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No. 1270 F.

FROM

G. H. M. BATTEN, ESQ.,

Offg. Secretary to the Government of India,

To

THE CHIEF COMMISSIONER OF COORG.

Department of Revenue, Agriculture and Commerce.

Forests.

SIMLA, *the 6th October* 1877.

SIR,

I AM directed to acknowledge the receipt of your Secretary's letter No. 353—21, dated the 28th August, submitting the Progress Report of Forest Administration in Coorg for the year 1876-77, and to communicate the following observations and orders.

2. The area of the Government forests in Coorg at the close of the year, is stated to have been 381¼ square miles, against 380¼ square miles at its commencement. It is reported that all the forests in Coorg have been surveyed by the Madras Revenue Survey Department, with the exception of three evergreen forests along the line of ghats, and Nalkere, a large tract of deciduous forest estimated to cover 117 square miles, in the southern corner of the province.

3. I am to point out that it would be an advantage if the next report could be accompanied by a map of Coorg on a scale of, say, 4 miles to 1 inch, on which the boundaries of all forests actually surveyed should be entered, and those of the others approximately indicated. Concerning the preparation of this map, the Conservator of Forests should consult the Superintendent of Forest Surveys.

Vurti and Kerti; Chembu and Kari-nad.

4. With respect to the evergreen forests on the ghats noted in the margin, the Conservator states that it is not intended to demarcate them and that natural boundaries will suffice for the present. But if natural boundaries have been determined on and are maintained these boundaries should also be approximately entered on the map. No information has lately been received by the Government of India regarding the description, produce and present condition of these evergreen forests, and I am to suggest that the next or an early annual report should contain a brief descriptive account of them. An account should at the same time be given of those cardamom-producing forests which are the property of Government.

5. If the figures of the reports are correctly understood, the revenue derived from the cardamom forests has been as follows during the last three years :—

	Rs.
1874-75	18,427
1875-76	23,581
1876-77	21,544

The Conservator states that the collection of the rents from these forests is made by the Revenue Department; but this does not relieve the Forest Department from responsibility regarding the protection and maintenance of these

Government forest estates. What is required in each annual report is a brief account of the condition of all forests which are the property of Government in Coorg.

6. Regarding the deciduous forests in the eastern portion of the province, something more is wanted in the annual report than a mere list of names and areas. In paragraph 28 of his report the Conservator states that he spent 46 days in examining the work done; and in inspecting the forests in North and South Coorg. The chief results of this inspection should have been stated. In his report for 1875-76 the Conservator gave useful notes regarding the present condition of several of the reserves. Similar but more detailed notes should be entered in each annual report, and they should include the result of the Conservator's inspection of the Government estates, for the protection and good management of which he is responsible.

7. The important subject of boundary lines and boundary marks is adverted to in paragraph 9 of the report. The Conservator should consider whether short, stout posts of teak or other durable wood, standing out not more than 2 feet, let deep into the ground, and when practicable surrounded by a platform of stones, flush with the ground, would not answer the purpose.

Every effort must be made to maintain the boundary lines and boundary marks in good order, and the progress made in this respect should be fully recorded in the annual progress reports.

8. As regards fire protection, the oft repeated representations of the Government of India have evidently not yet had much effect in Coorg. The Governor General in Council trusts that this year a commencement will be made in earnest. It is of course necessary that the Conservator should effect the protection and improvement of the forests by means of the smallest possible outlay. But assuming that due economy is used, the expenditure on this account, in the absence of other information, furnishes a fair standard whereby the greater or less activity of forest officers with regard to the most important branch of their work may be measured. The outlay under A, "conservancy and working" for the maintenance and improvement of the forests during the year under review placed side by side with the outlay for the production of revenue, has during the last three years been as follows :—

		Revenue.	Improvement.	Total.
		Rs.	Rs.	Rs.
1874-75	...	17,481	6,292	23,773
1875-76	...	18,562	7,429	25,991
1876-77	...	14,698	3,794	18,492

It is evident that less work than usual was accomplished in during the year under review.

9. The yield of timber, sandal-wood and bamboos of the reserved and unreserved forests is detailed in Statements A and D appended to the report. Sandal-wood is chiefly the produce of the unreserved forests. The quantities of sandal-wood collected and sold, and the rates realized during the last three years appear to have been as follows :—

		Collected.	Sold.	Rate per ton.
		Tons.	Tons.	Rs.
1874-75	...	75¼	42¾	479
1875-76	...	86½	93½	551
1876-77	...	52	39½	540

10. Looking to the prospects of a permanent supply from the Coorg forests of this valuable produce, it is satisfactory that a less quantity than usual was collected, but neither in this nor in previous reports is any information given regarding the growing stock of sandal-wood which furnishes the annual yield, and the Government of India is as yet completely in the dark regarding the important question, whether there is a reasonable prospect of the present annual yield of sandal-wood in Coorg being permanently maintained. The Governor General in Council recognizes the great difficulty of

the subject, but the Conservator of Forests must not lose sight of it, and each annual progress report should shew that the subject has been kept in view, and that information is being collected which will at a future time enable the Conservator to form definite conclusions.

11. As regards the cultivation of this valuable tree, His Excellency in Council desires to repeat what was said in the order conveyed in paragraph 8 of the letter from this office, No. 228, dated the 13th February last, that early steps must be taken to re-commence the cultivation of the sandal-wood tree in Coorg.

12. The receipts and charges of the year have been as follows:—

					Rs.
Receipts	...	...	...	...	75,929
Charges	A—Rs. 18,492 B— „ 14,836	...	...	...	33,328
			Surplus	...	42,601

In future reports the annual summary of receipts and expenditure should exhibit in separate columns the receipts and charges on account of reserved and unreserved forests.

13. From paragraph 24 of the report the Governor General in Council observes that the inspection of forest land applied for for coffee planting continues to take up a large part of the time of the forest establishment. I am directed to recommend this subject to your earnest consideration. If necessary, a separate staff of forest officers must be employed on this work. At the same time I am directed to enquire whether this business cannot be arranged more systematically. If a rule were made to receive all applications at one time of the year, say in spring or early in summer, and to receive no applications at other times, it would be known beforehand what plots have to be examined during the working season, and a regular plan of operations might be followed. The greater part of the time now apparently taken up by journeys to and from the plot applied for, might thus be saved, the applications might be disposed of more expeditiously and the work would be done in a more satisfactory manner.

I have the honour to be,

SIR,

Your most obedient Servant,

G. H. M. BATTEN,

Offg. Secretary to the Government of India.

1877.

GOVERNMENT OF INDIA.

DEPARTMENT OF REVENUE, AGRICULTURE AND COMMERCE.

FORESTS.

To

THE CHIEF COMMISSIONER OF COORG.

No. 1270 *F.*

Dated Simla, the 6th October 1877.

SUBJECT.

COMMUNICATES observations and orders on the Progress Report of Forest Administration in Coorg for the year 1876-77.

Govt. Central Branch Press, Simla,—No. 963 R., A. & C. —10-10-77.—400.

PROGRESS REPORT

OF

FOREST ADMINISTRATION

IN THE

PROVINCE OF COORG,

FOR

1876—77.

By CAPTAIN G. J. VAN SOMEREN,

CONSERVATOR OF FORESTS.

REVIEW BY THE CHIEF COMMISSIONER.

Para 3.

The two blocks of reserved-forests proposed to be set apart for coffee cultivation were surveyed and found to measure 5,853 acres instead of 8,000 acres as estimated. The submission of the maps and report called for by the Government of India in their letter No. 847, dated 24th July 1875, should be expedited.

Para 5.
Nalkere,
Vurti and Kerti,
Chembu and Karinad.

2. All the reserved-forests, with the exception of those noted in the margin, are reported to have been surveyed; but the actual areas found on survey have not been given owing, it is stated, to non-receipt of information on the subject, from the Superintendent, Revenue Survey. The total area of the reserved-forests at the close of the year under review was 381¼ square miles, which included a small addition of some 600 acres made during the year to the Yedava-nad forest.

Paras 6 to 8.

3. The out-turn of work under "Demarcation" was less than that in the preceding year. As already noticed in para 40 of this office order No. 268—16, dated 10th July last, there was a lapse of Rs. 1,700 under that head, the cause of which was attributed by the Conservator to the unfavorable character of the season which did not permit of more work being carried out.

Para 10.

4. The report promised by the Conservator on the subject of cardamom forests will be awaited.

Para 12.

5. The arrangements made with regard to the disposal of wood cut in the course of demarcation are approved.

Para 13.

6. There were 4 cases of breaches of Forest Rules involving 10 persons who were all convicted.

Paras 14 and 15.

7. The measures taken for the protection of forests from fire were inconsiderable. The work done during the year was limited to cutting 15½ miles of lines round the South Anekadu Forest and one line up the centre, which are reported to have been insufficient to ensure its protection. Although no fire occurred in this forest, parts of all the other forests are stated to have been burnt. The extent of injury has not been reported.

8. No extension was made in any of the plantations. The only two that are fairly well stocked with trees are Karmad and Kutampalle, both of teak, the cost of which during the year amounted to Rs. 961 and Rs. 144 respectively.

Para 16.

9. The sales of timber realized Rs. 15,513 as against Rs. 24,217 in the preceding year, the decrease being due to a less quantity having been sold.

Para 20.

10. The receipts from the small depôts amounted to Rs. 7,290 against an expenditure of Rs. 6,061, shewing a profit of Rs. 1,229 as against Rs. 2,391 in the previous year.

Para 21.

11. The quantity of sandalwood collected during the year was 52 tons which, though below the estimate, was as much probably as can practically be stored under the circumstances of the occupation of the Fraserpet sandal koti by the prisoners from Mercara during the rainy season annually. The average cost of collection per ton was Rs. 40—14—4 as against Rs. 45—10—6 in the previous year.

Para 22.

12. The quantity of sandalwood sold was 39½ tons, which realized Rs. 21,319, or an average of Rs. 540 per ton. The action taken by the Assistant Conservator in having withheld the sale of more than half of his billet wood, owing to the rates offered being low, is approved.

Para 24.

13. Out of 100 applications referred to the Forest Department for inspection of lands applied for for coffee cultivation, 60 only are reported to have been disposed of during the year, in addition to 45 old ones which were pending from 1875—76. The prompt disposal of these applications is of great importance, and the Chief Commissioner hopes that the establishment specially sanctioned for this work in Government of India letter No. 981, dated 22nd September 1876, will be able to shew a better out-turn of work in future.

14. The financial results of the year were:—

Para 25.

			Rs.
Receipts			75,929
Charges	A	18,493	
	B	14,836	
			33,329
		Surplus....	42,600

Of the charges for conservancy and works, Rs. 14,699 were expended on the production of revenue, and Rs. 3,794 on the maintenance and improvement of the forests. It is observed that the receipts from "firewood and charcoal" were only Rs. 1,996 against an outlay of Rs. 1,767. The operations under this head were therefore not very remunerative. The statement shewing the actual receipts and expenditure of the department for the year under review has been separately reviewed and submitted to the Government of India.

15. The Conservator's proposals for the supply of firewood to the Sadar Distillery at Fraserpet will be awaited.

Para 27.

16. Separate orders have been passed regarding the promotion of Ranger Boppanna who has been favorably reported on by the Conservator.

Para 31.

17. The Conservator's attention is drawn to section 189 of the Forest Code, with a request that the forms therein prescribed for submission with annual forest reports be adopted in future.

"By Order,"

T. CLARKE,

Secretary.

BANGALORE,

1st *August* 1877.

CONSERVATOR'S REPORT.

Annual Report No. 993—25, *F., dated* 16*th July* 1877, *on the Management and Conservancy of the Coorg Forests for the Financial year* 1876—77, *by* CAPTAIN G. J. VAN SOMEREN, *Conservator.*

I have the honor to submit the Coorg Forest Report for the year 1876—77.

INTRODUCTORY.

2. Nil.

SPECIAL.

HEAD I.—STATE FORESTS.

3. The two blocks of forest, proposed to be alienated for the use of coffee planting, and estimated to measure respectively 7,000 and 1,000 acres, were surveyed. They were found to contain but 4,448 and 1,404 acres respectively, or 5,853 in all. The maps are not in yet from the Revenue Survey Department, but will be so shortly.

4. A small addition of some 600 acres has been made to the Yedava-nad forest.

5. The Assistant Conservator has reported that all the forests have been surveyed with the exception of Nos. 6, 7, 8 and 9. No. 6 is the largest deciduous forest we have in Coorg. The other three are evergreen forests on the ghats, not yet demarcated, nor surveyed. It is not intended to demarcate these forests; natural boundaries will suffice for the present. No authenticated statement of the actual results of forest surveys, or of the area completed, has reached me yet. The Superintendent, Revenue Survey, has promised it at an early date, and I therefore enter the forests with a slight addition (see last para), as measuring the same as reported last year :—

No.	Reserved-Forests.	Area in 1875—76	Added during the year.	Excluded or transferred to other heads.	Total remaining in 1876—77.
		Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.
1	Dubare	40	...	...	40
2	Devamurchi	25	...	...	25
3	Mavakal	17	...	...	17
4	Arokere-nad	50	...	...	50
5	Hattugat-nad	75	...	...	75
6	Nalkere	117	...	...	117
7 & 8	Vurti and Kerti	Net estimated.			
9	Chembu and Kari-nad	10	..	...	10
10	Anekadu	19½	...	...	19½
11	Ganagur	11¾	...	...	11¾
12	Yedava-nad	10	1	...	11
	Katipur in North Coorg	5	...	...	5
	Total.....	380¼	1	...	381¼

6. *Demarcation.*—The year's work is given in the following statement:—

	Cost per mile.	Total Cost.	Remarks.
Length of new miles cleared 16¾	10 5 1	172 13 6	
Up-keep of old lines 30½	10 3 11	312 7 8	
Survey stations, number 595	0 3 0 (each Station.)	114 0 8	

7. All the deciduous forests have now been demarcated. The following statement shews the total of work done under this head from the commencement up to 31st March 1877:—

	Cost per mile.	Total Cost.	Remarks.
Length of miles cleared 347½	21 10 0	7,513 9 7	
Up-keep 269	4 13 7	1,326 6 6	
Survey stations, number 3,842	0 5 0 (each Station.)	1,202 3 8	

8. In addition to the work just shewn, 10¼ miles of lines were cleared round the land referred to in para 3, as proposed to be alienated, at a cost of Rs. 86—12—0; and 191 survey stations fixed at a cost of Rs. 32—4—0.

9. In future a yearly recurring expenditure will be necessary to keep the lines open. The setting up of pillars or other marks along the lines has still to be done. The Government has ordered that some such marks must be put up. Posts will not do, for, elephants knock them down. These animals have also caused much annoyance by pulling the stones laid down as survey stations. Any masonry work to be done over so extended an area will be very expensive.

10. *Cardamom Forests.*—The collection of the rents due on these forests is made by the Revenue Department. Mr. Dickinson at the close of the year submitted a report on his inspection of these forests which will be sent on.

SECOND SECTION.

Requirements of the Population in the vicinity of State Forests how provided for.

11. These are provided for by uduvés or village forests being allotted in north Coorg. In south Coorg, where waste and forest land has been allotted with land taken up for cultivation, and where villages are very scarce, no difficulty is experienced by the people.

12. Now that the forests are demarcated, and clearly set off, the Assistant Conservator has with my consent commenced to sell wood of the unreserved kinds from them, such wood being paid for first in full, and cut and removed under supervision. The Assistant Conservator decides on each application himself, entirely with regard to the well being of the forest. Under a careful officer this system will work well, and establishes no precedent, as it may be stopped at any time.

THIRD SECTION.

Protection of the Forests.

13. Prosecutions for breaches of the Forest Rules:—

Forest Division.	No. of Prosecutions.		Convictions obtained.		Remarks.
	No. of Cases.	No. of Persons.	No. of Cases.	No. of Persons.	
Coorg	4	10	4	10	

14. *Fire Protection.*—In the south Anekadu forest, operations were commenced, and, by cutting 15½ miles of lines round the forest, and one line up the centre, a good deal was done towards protecting it. The forest was not burnt, so far good; but as neither Mr. Dickinson (now in charge) nor I consider the lines yet cut to be a sufficient protection, much of this good result is due as much to good fortune.

15. Parts of all the other forests were burnt; they have not yet been protected. Mr. Dickinson who took charge in January 1877, after doing capital work in fire protection in Mysore, is well aware of the good resulting therefrom, and quite capable of carrying it out; but I solicit the Chief Commissioner's attention to para 24 of this report, should comparisons be drawn between forest work proper in Coorg and other Provinces in Northern India or in the Deccan.

FOURTH SECTION.

Improvement and Extension of the Forests.

16. Plantations:—

Plantations.	Area in 1876—77.	Total Cost.	Area added in 1876—77.	Amount expended in 1876—77.	Total Area up to 1876—77.	Total Expenditure up to 1876—77.	Remarks.
Karmad	229	16,186	...	961	229	17,147	Teak.
Kutampolle	152	6,958	...	144	152	7,102	Do.

17. At Karmad the work done was weeding only. There were numerous failures in that part of the plantation formed in 1875—76. More care and supervision during a part of the year was needed; the rest of the plantation worked well as a whole when I inspected it, and a detailed report will be furnished by Mr. Dickinson during the course of this year.

18. *Kutampolle.*—In a large part of this plantation weeds have been allowed to overstop and greatly damage the young teak; keeping down these weeds is doubtless hard work, but I do not think all was done that might have been done.

19. *Roads and Bridges.*—Rs. 90 altogether were spent on these minor works; and in repairs of existing buildings and temporary sheds for work Rs. 83—2—8 were expended. Plans and estimates for building two permanent huts—one in Dubare and the other at Nagarhole—were prepared, and the work will be completed this year. They are wanted for the officer while engaged on fire protection and while collecting data for working plans, and in general supervision.

FIFTH SECTION.

Actual Yield of Forests, Disposal of Timber, &c.

20. This information will be found in figured statements in the appendix. The fellings in State and district forests are in A, which also shews the total cost and cost per cubic

foot. In addition to the quantities shewn therein, 6,500 bamboos were supplied free of seigniorage to the 28th Regiment, Native Infantry, for their huts, in accordance with general orders given me. The regiment paid the felling charges. Statement B shews the *collections* at depôts, distinguishing between collections at ordinary and small depôts, and giving the total carting charges, and average rate per cubic foot. Statement C gives the sales and amounts realized therefrom on wood and bamboos, in detail.

21. *Small Depôts.*—In my last report, para 23, I reported that all the depôts had, with two exceptions—Virarajendrapet and Somavarpet, been closed during 1876—77, and one opened at Mercara. The wood in store at the closed depôts was sold off as far as possible.

The total results were: sales Rs. 7,290; total expenditure including felling, carting, collecting and the protecting of depôts Rs. 6,061, shewing a balance of Rs. 1,229. At Fraserpet alone the sales amounted to Rs. 3,105; and at Mercara opened for a part of the year only Rs. 662.

22. *Sandalwood.*—The details of collection and sales, cost of collection and average selling rates are given in the appendix in Statement D. The billet wood sold for less than it did the year preceding, while the roots went at higher rates than those of 1875—76. The auction was poorly attended, and the Assistant Conservator kept back rather more than half of his billet wood, as he did not think it right to sacrifice it at the rates offered. He was right in doing so, though the actuals under this head were thus rendered lower than estimates.

23. *Free Grants to Ryots.*—A free grant of 697 poles and of 6,000 bamboos was made to the ryots of a village in north Coorg, their houses having all been destroyed by fire. They were allowed to fell the wood themselves in unreserved forests. Having felled *trees* instead of poles, they were stopped, the trees seized, and the case reported after the commencement of the current year.

24. *Inspection of Coffee Lands.*—This work as usual occupied very much of the time and attention of the Assistant Conservator and of the Rangers. One hundred applications were referred to the Forest Department; of these sixty were disposed of, and forty-five pending from 1875—76 were also settled, making a total of 105 inspections. This is a kind of work which has not to be carried out, I believe, by forest officers in any other province. The counting of the trees, the preparation of the bills, and the time in journeys to the lands asked for took away the forest staff from its own legitimate work, which suffered greatly. Mr. Dickinson could not take charge of the Coorg Forest Division till late in January, as he was unable to leave Mysore till then. Early in March, Mr. Ring had to leave Coorg very ill; I trust the bare mention of these facts will show that, combined with the delays caused by the long and heavy monsoons in Coorg, forest work proper is not an easy matter to carry on in Coorg. Mr. Ring has now returned to Coorg; and when the forests are again open, Mr. Dickinson will I trust not be prevented by any unforeseen accidents from devoting his and his Rangers' time and work to the forests themselves, leaving Mr. Ring to do all inspections.

25. *Financial Results.*—The Government of India having directed that the statements shewing the difference between estimates and actuals, which I usually embodied in my report for some years past, should be omitted; and as the explanation of increases and decreases was reported in the regular form on the 1st June 1877, I shall only state here the general result that, under receipts, the department realized Rs. 75,929 or Rs. 9,429 more, and spent in all Rs. 53,329 or Rs. 5,171 less than the original estimates.

The usual tabular statements, stock returns, &c., are all to be found in the appendix; and the results are summarized now in the usual and prescribed form:—

		Rs.
Realizations		75,929
Deduct—		
On account of previous years		21,908
	Balance ..	54,021
Add—		
Outstandings at close of year		29,297
Value of year's transactions		83,318
Disbursements		33,329
Deduct—		
On account of transactions of former years		2,336
		30,993
Real cost of year's transactions		30,993
	Balance ..	52,325
Deduct—		
Difference between value of stock at commencement and close of year		2,133
	Net Results of the year ..	50,192

Cash surplus being 42,600.

GENERAL REMARKS.

26. The question of supplying Mercara with firewood is by the orders of the Chief Commissioner left alone for the present.

27. The supply of firewood to the Sadar Distillery at Fraserpet is an important matter. It is receiving much attention from Mr. Dickinson, who reports that the demand upon the neighbouring State forests is large. He is engaged in preparing a method of supply, which while conserving the forest better must raise the price of the wood, which is at present cut and supplied by the department.

28. I spent 46 days in Coorg with Mr. Dickinson, inspecting work done, and going very carefully over the forests in north Coorg, and over a large part of the Nalkere, Hatkatnad and Arikere forests in south Coorg, and discussing plans for their future working. Much useful information on this point is being collected. Part of our trip had to be given up owing to Mr. Dickinson falling ill.

29. The demarcation lines had, as a rule, been well cleared In one forest in north Coorg, however, it was clear that want of supervision by the officer had resulted in a very bad line being adopted, and this will have to be changed hereafter.

30. The survey of the forests progressed favorably, though, as already reported, I cannot give actual areas.

31. Ranger Boppanna is well reported on, and has since been recommended by me for promotion to the next grade. Of the rest of the subordinate establishment nothing particular is reported either way by the Assistant Conservator.

32. Mr. Dickinson took charge late in January. His presence in Coorg has already had a good effect on the subordinates generally; and when he gets to know the country well, he will, I hope, with the added advantage of being freed from much extraneous work, be able to shew good results in Coorg.

33. I have striven to make this report as concise as possible; and yet to give accurate information of the work done. Much of the work, such as cutting lines, surveying, and above all inspection of lands, takes up much time, while the *results* can be shewn in a few figures.

G. J. VAN SOMEREN, CAPTAIN,
Conservator of Forests, Coorg.

Government Series No. 21.

COORG FOREST DEPARTMENT.

Annual Summary of Revenue and Expenditure for 1876—77.

Budget Heads.	Particulars.	Amount.			Remarks.
	RECEIPTS.				
I.	Revenue from wood :—				
	1. Brought to Depôt by Departmental Agency.—				
	(a) Timber and bamboos...	16,859	7	6	
	(b) Firewood and charcoal	1,995	13	9	
	(c) Sandalwood	18,786	11	11	
	3. From confiscated drift and waif wood ...	2,475	4	...	
II.	1. Grazing dues and sale of grass	69	3	...	
	2. Other minor produce	*23,703	2	1	*Cardamom rent Rs. 21,544-2-1 Minor produce „ 2,159-0-0
IV.	Miscellaneous :—				
	3. From other sources	12,039	...	9	
	Total Receipts... ..	75,928	11	...	
	EXPENDITURE.				
	A. Conservancy and Works.				
I.	Cost of timber operations :—				
	1. On wood brought to Depôts by Government Agency :—				
	(a) Timber and bamboos	10,692	5	6	
	(b) Firewood and charcoal	1,766	12	9	
	(c) Sandalwood	2,126	10	...	
III.	Cost of forest organization :—				
	1. Demarcation lines and boundary pillars or marks.	599	5	10	
	3. Surveys	1,101	...	3	
IV.	Cost of treatment and creation of forests :—				
	1. Natural forests :—				
	(a) Protection from fire	677	9	11	
	(d) Reboisement or restoration of denuded areas ...	1,081	8	...	
	2. Artificial forests :—				
	(c) Improvement and conservation	161	2	8	
VII.	Works of utility for the development of forests :—				
	1. Roads and bridges	90	...	...	
	2. Buildings and offices	83	2	8	
VIII.	Cost of Departmental Cattle :—				
	3. Feed and keep of cattle	100	8	3	
X.	Miscellaneous charges :—				
	2. Law charges	12	5	...	
	Total A, Conservancy and Works.. ...	18,492	6	10	
	B. Establishment.				
I.	Salaries	9,263	1	6	
II.	Travelling allowances	4,959	7	8	
III.	Contingencies	613	11	3	
	Total B, Establishment.....	14,836	4	5	
	Total Expenditure.....	33,328	11	3	

CONSERVATOR OF FORESTS' OFFICE,
COORG,
Bangalore, 1st June 1877.

G. J. VAN SOMEREN, CAPTAIN,
Conservator of Forests, Coorg.

Countersigned.—The total receipts and the totals under A Conservancy and Works, and B. Establishment have been verified and found correct.

COMPTROLLER GENERAL'S OFFICE,
TREASURY ACCOUNT BRANCH,
Fort William, the 23rd June 1877.

H. COOKE,
Assistant Comptroller General.

Dr. Government Series No, 22. Cr.

COORG FOREST DEPARTMENT.

Annual Abstract Account of the Cash Transactions of the Forest Department for 1876—77.

Year.	Heads of Account.	Amount.			Year.	Heads of Account.	Amount.		
1876—77.	To Cash Balance on 1st April 1876.	2,136	0	0	1876—77.	By Expenditure of the Department...	33,328	11	3
	„ Revenue received ...	75,928	11	0		„ Remittances to State Treasuries...	75,928	11	0
	„ Remittances from State Treasuries	32,465	10	2		„ Refund of Advances ...	957	9	1
						„ Do on account of Contingencies	100	8	3
						„ Do refunded in 1875—76 but omitted to be shewn in that year's account	4	0	0
						„ Balance in hand on 31st March 1877	210	13	7
	Total Rs.....	1,10,530	5	2		Total Rs.....	1,10,530	5	2

CONSERVATOR OF FORESTS' OFFICE,
COORG.
Bangalore, 1st *June* 1877.

Countersigned.
H. COOKE,
Asst. Comptroller General.

G. J. VAN SOMEREN, CAPTAIN,
Conservator of Forests, Coorg.

Government Series No. 23.
COORG FOREST DEPARTMENT.

Annual Statement of Outstandings and Liabilities of the Department on account of Contractors and other Disbursers for 1876—77.

Division.	Departmental Debtor.			Departmental Creditor.			Balance due.			Remarks.
	At the commencement of the year.	Recoveries in cash and value of supplies and work done during 1876—77.	At the close of the year.	At the commencement of the year.	Payments made during the year.	At the close of the year.	To Department Outstandings.	By Department Liabilities.		
Coorg	2,335 13 9	17,114 2 2	19,449 15 11	2,071 9 4	17,589 4 2	19,660 13 6	210 13 7	...	...	

Government Series No. 28.
COORG FOREST DEPARTMENT.

Annual Account of Forest Revenue for 1876—77.

Receipts.	Amount.			Disbursements.	Amount.		
Amount of revenue realized in 1876—77.	75,928	11	0	Amount disbursed in 1876—77 ...	33,328	11	3
Deduct—				*Deduct—*			
Amount realized on account of previous years	21,908	3	7	Amount disbursed on account of transactions of former years ...	2,335	13	9
Balance.....	54,020	7	5	Balance.....	30,992	13	6
Add—				*Add—*			
Outstandings at close of the year ...	29,297	1	9	Amount due for transactions during the year under review but not yet disbursed	...	...	...
Value of the year's transactions ...	83,317	9	2	Real Cost of the year's transactions ...	30,992	13	6

Value of the year's transactions	83,317	9	2
Cost of the year's transactions	30,992	13	6
Balance.....	52,324	11	8
Deduct difference between the value of the stock at the commencement and close of the year.	2,133	0	0
Net Realizations of the year.....	50,191	11	8

Besides the above Rs. 130 worth of bamboos were supplied free of charge to the Military Department.

CONSERVATOR OF FORESTS' OFFICE,
COORG,
Bangalore, 16*th July* 1877.

G. J. VAN SOMEREN, CAPTAIN,
Conservator of Forests, Coorg.

COORG FOREST DEPARTMENT.

Stock Account of Quantities and Value of Timber and other Forest Produce on hand at the commencement and close of the year 1876—77.

Description.	In Depôt on 1st April 1876.		Add received during 1876—77.		Deduct-issued or sold during 1876—77.					Remaining in Stock on 31st March 1877.		Remarks.
	Quantity.	Probable Value.	Quantity.	Probable Value.	Quantity.	Probable Value.	Amount realized.	Difference. Profit.	Difference. Loss.	Quantity.	Probable Value.	
Timber.												
Teak logs ...	476	6,188 0 0	199	2,587 0 0	365	4,745 0 0	6,856 10 6	2,111 10 6	... 0 0	310	4,030 0 0	
Do poles ...	99	99 0 0	...	... 0 0	24	24 0 0	11 0 0	... 0 0	13 0 0	75	75 0 0	
Junglewood logs ...	1,641	13,128 0 0	153	1,224 0 0	473	3,784 0 0	3,613 5 10	... 0 0	170 10 2	1,321	10,568 0 0	
Do poles ...	4,875	4,875 0 0	918	918 0 0	2,076	2,076 0 0	1,192 11 0	... 0 0	883 5 0	3,717	3,717 0 0	
Bamboos ..	141,924	2,838 0 0	65,350	1,306 0 0	64,631	1,292 0 0	1,976 14 0	684 14 0	.. 0 0	142,643	2,852 0 0	
Firewood, cart-loads...	247	247 0 0	2,771	2,771 0 0	3,018	3,018 0 0	1,509 0 0	... 0 0	1,509 0 0	...	... 0 0	
Total Timber.....	149,262	27,375 0 0	69,391	8,806 0 0	70,587	14,939 0 0	*15,159 9 4	2,796 8 6	2,575 15 2	148,066	21,242 0 0	
Sandalwood.												
Good wood ...	25½	8,160 0 0	52	16,640 0 0	39½	12,640 0 0	21,318 12 11	8,678 12 11	... 0 0	38	12,160 0 0	
Total Sandalwood.....	25½	8,160 0 0	52	16,640 0 0	39½	12,640 0 0	21,318 12 11	8,678 12 11	... 0 0	38	12,160 0 0	
Grand Total.....	149,287½	35,535 0 0	69,443	25,446 0 0	70,626½	27,579 0 0	36,478 6 3	11,475 5 5	2,575 15 2	148,104	33,402 0 0	

*Besides the above Rs. 352—15—9 were realized by sale of 5,734 fire-sticks sold to the Anche Department.

CONSERVATOR OF FORESTS' OFFICE,
COORG,
Bangalore, 16th July 1877.

G. J. VAN SOMEREN, CAPTAIN,
Conservator of Forests, Coorg.

A.

COORG FOREST DEPARTMENT.

Statement shewing the Timber and Bamboos felled in different Forests during 1876—77.

Description.	In State or Reserved Forests.		In District or Unreserved Forests.		Total.		Cost.			Average Cost per cubic foot.			Remarks.
	No.	Cubic feet.	No.	Cubic feet.	No.	Cubic feet.							
Teak logs ...	172	3,674	27	260	199	3,934	315	3	6	...	1	5	
Junglewood do ...	51	1,217	102	1,790	153	3,007	362	8	...	...	1	11	
Teak poles ...	...	...	...	...	...	...	...	..	..	...	...	...	
Junglewood do ...	196	...	722	...	918	...	230	4	...	...	4	...	
Bamboos ...	...	...	65,350	...	65,350	...	376	3	2	5	12	7	Per 100 Bamboos.
Firewood (Cart-load) ...	2,771	...	...	...	2,771	...	519	9	...	...	3	...	Per cart-load.
Fire-sticks ...	1,918	...	5,603	...	7,521	...	331	6	3	...	...	8	Each stick.
Total.....	5,108	4,891	71,804	2,050	76,912	6,941	2,135	1	11	...	...	...	

B.

COORG FOREST DEPARTMENT.

Statement shewing the Timber and Bamboos collected at Depôts during 1876—77.

Description of Wood.	At ordinary Depôts.		At small Depôts.		Total.		Carting Charges.			Average Rate per cubic foot.			
	No. of logs.	Cubic feet.	No. of logs.	Cubic feet.	No. of logs.	Cubic feet.							
Teak	245	5,687	35	682	280	6,369	1,572	3	0	...	3	11	
Junglewood ...	22	598	156	3,365	178	3,963	505	11	4	...	2	...	
Teak branch pieces ..	2	22	...	...	2	22	5	8	0	...	4	...	
Junglewood poles (No.) ...	160	...	776	...	936	...	181	4	0	...	3	1	Per pole.
Bamboos (No.) ...	2,100	...	21,216	...	23,316	...	464	1	8	20	...	...	Nearly per 1,000 bamboos.
Firewood (cartloads).	2,771	...	...	...	2,771	...	692	12	0	...	4	...	Per cart-load.
Fire sticks (No.) ...	825	..	5,735	...	6,560	...	21	1	6	...	...	...	
Total.....	6,125	6,307	27,918	4,047	34,043	10,354	3,442	9	6	...	...	...	

N. B.—This and following statement exclude the cost of temporary establishment of the small Depôts, &c. debited to "*Working Charges*" under Government of India orders.

CONSERVATOR OF FORESTS' OFFICE,
COORG,
Bangalore, 16th July 1877.

G. J. VAN SOMEREN, CAPTAIN,
Conservator of Forests, Coorg.

C.

COORG FOREST DEPARTMENT.

Statement shewing the Amount realized on account of the different classes of Timber sold during 1876—77.

Description of wood.	At ordinary Depôts.			At small Depôts.			Total.							Remarks.
	No. of logs sold.	Cubic feet.	Amount realized.	No. of logs sold.	Cubic feet.	Amount realized.	No. of logs.	Cubic feet.	Amount realized.	Average rate per cubic foot.	Average rate per 100 cubic feet.	Average cubical contents of logs.	Average amount per log.	
Teak	267	5,663	5,589 6 6	95	1,584	1,244 4 0	362	7,243	6,833 10 6	0 15 1	94 4 4	20	18 14 0	
Do branch pieces ..	3	23	23 0 0	...	...	... .	3	23	23 0 0	1 0 0	100 0 0	7	7 10 8	
Junglewood ...	27	724	457 13 4	446	6,657	3,155 8 6	473	7,381	3,613 5 10	0 7 10	48 15 4	15	7 10 2	
Teak poles ...	...	...	... 0 ...	24	...	11 0 0	24	...	11 0 0	0 7 4	... 7 4	...	... .	Per pole.
Junglewood poles ...	290	...	297 8 0	1,786	...	895 3 0	2,076	...	1,192 11 0	0 9 2	... 9 2	...	... .	Do.
Bamboos	9,750	...	243 12 0	54,881	...	1,733 2 0	64,631	...	1,976 14 0	30 14 2	30 14 2	...	... ...	Per 1,000 bamboos.
Firewood (cart-loads) ...	3,018	...	1,509 0 0	...	...	... ...	3,018	...	1,509 0 0	0 8 0	... 8 0	...	... .	Per cart-load.
Firesticks	1,629	...	101 13 0	4,105	...	251 2 9	5,734	...	352 15 9	0 1 0	... 1 0	...	... ...	Each stick.
Total.....	14,984	6,410	8,222 4 10	61,337	8,237	7,290 4 3	76,321	14,647	15,512 9 1	... ...	... ...	...	... ...	

N. B.—Besides the above 6,500 bamboos to the value of Rs. 130 were supplied free of charge to the Military Department.

CONSERVATOR OF FORESTS' OFFICE,
COORG,
Bangalore, 16*th July* 1877.

G. J. VAN SOMEREN, CAPTAIN,
Conservator of Forests, Coorg.

D.

COORG FOREST DEPARTMENT.

Statement shewing the Quantity of Sandalwood, collected and sold during the year 1876—77.

Description of wood.		Collections.									Sales.									Remarks.
		Quantity in tons.	Total cost.				Average cost per ton.				Quantity in tons.	Amount realized.				Average Amount per ton.				
Good wood.	Billet wood.	41½	2,126	10	0		40	14	4		28½	16,231	12	11		569	8	7		There was a short collection of 28 tons of sandalwood, explanation of which, though called for, is still wanting.
	Roots ...	10									10	4,912	0	0		491	3	2		
	Other wood..	½									1	175	0	0		175	0	0		
	Total.....	52	2,126	10	0		40	14	4		39½	21,318	12	11		539	11	5		

CONSERVATOR OF FORESTS' OFFICE,
COORG,
Bangalore, 16*th July* 1877.

G. J. VAN SOMEREN, CAPTAIN,
Conservator of Forests, Coorg.

E.

COORG FOREST DEPARTMENT.

Account shewing the Expenditure incurred on account of Plantations in Coorg up to the close of the official year 1876—77.

Division.	Name of Plantation.	Previous area planted.	Area planted in 1875-76.	Area planted in 1876-77.	Total area planted.	Previous cost of formation and maintenance.	Cost of formation and maintenance on area planted in 1875-76.	Cost of formation and maintenance on area planted in 1876-77.	Total cost of formation and maintenance on whole area planted.	Amount realized on crops in previous years.	Amount realized on crops in 1875-76.	Amount realized on crops in 1876-77.	Total amount realized on crops.	Total net cost of area planted, formation and maintenance.	Average cost per acre for formation and maintenance. In previous year.	Average cost per acre for formation and maintenance. In 1875—76.	Average cost per acre for formation in 1876-77.	Average per acre for formation and maintenance on whole area planted.
Coorg.	Karmad (Teak) ...	214	15	...	229	14,489 0 0	1,697 0 0	961 0 0	17,147 0 0	...	...	...	...	17,147 0 0	67 11 3	113 2 1	...	74 14 0
	Kutampolle (do) ...	152	...	...	152	6,555 0 0	403 0 0	144 0 0	7,102 0 0	...	...	...	...	7,102 0 0	43 2 0	...	...	46 11 6
	Karepur (Anekadu) ...	24	...	...	24	1,886 0 0	64 0 0	...	1,950 0 0	...	...	...	...	1,950 0 0	78 9 4	...	...	81 4 0
	Vaddar Ane (Sundry) ...	50	...	...	50	438 0 0	...	...	438 0 0	...	...	...	...	438 0 0	8 12 1	...	...	8 12 1
	Gangavara (do) ...	15	...	...	15	655 0 0	228 0 0	137 0 0	1,020 0 0	...	...	...	...	1,020 0 0	43 10 8	...	...	68 0 0
	Total...	455	15	...	470	24,023 0 0	2,392 0 0	1,242 0 0	27,657 0 0	...	...	...	...	27,657 0 0	...	...	...	...

CONSERVATOR OF FORESTS' OFFICE,
COORG,
Bangalore, 16*th July* 1877.

G. J. VAN SOMEREN, CAPTAIN,
Conservator of Forests, Coorg.